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NEWS	1		Web Page for STN Seminar Schedule - N. America
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			substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
			and Japanese-ranguage basic patents from 2004-present
NEWS	3	NOV 26	MARPAT enhanced with FSORT command
NEWS	4	NOV 26	CHEMSAFE now available on STN Easy
NEWS	5	NOV 26	Two new SET commands increase convenience of STN
			searching
NEWS	6	DEC 01	ChemPort single article sales feature unavailable
NEWS	7	DEC 12	GBFULL now offers single source for full-text
			coverage of complete UK patent families
NEWS	8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	9	JAN 06	The retention policy for unread STNmail messages
			will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
			Classification Data

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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SINCE FILE TOTAL
ENTRY SESSION
0.22 0.22

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 26 JAN 2009 HIGHEST RN 1096253-54-1 DICTIONARY FILE UPDATES: 26 JAN 2009 HIGHEST RN 1096253-54-1

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\STNEXP\Queries\10582564.str

```
chain nodes :
ring nodes :
1 2 3 4 5
            6 7 8 9 10 13 17 18 19 20 21 22 23 24 25 26 27 28
29 30 31
chain bonds :
8-17 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-28 10-31
                                                        13-23 13-27 17-18
17-22 18-19
            19-20 20-21 21-22 23-24 24-25 25-26 26-27 28-29 29-30 30-31
exact/norm bonds :
5-7 6-9 7-8 8-9 10-28 10-31 12-13 28-29 29-30 30-31
exact bonds :
8 - 17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-23 13-27 17-18 17-22 18-19 19-20 20-21
21-22 23-24 24-25 25-26 26-27
```

G1:0,S

G2:Hy,Ph

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:Atom 14:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom

L1STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1STR

G1 0, S

G2 Hy,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s sam sss 11

SAMPLE SEARCH INITIATED 18:33:13 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -64 TO ITERATE

100.0% PROCESSED 64 ITERATIONS 8 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 800 TO 1760 8 TO

PROJECTED ANSWERS: 329

L2 8 SEA SSS SAM L1

=> d 12

ANSWER 1 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN L2

RN 859538-93-5 REGISTRY

ED Entered STN: 11 Aug 2005

[1(2H), 2'-Bipyridin]-2-one, 5'-[[2-(2-pyridinyl)-5-(2-pyrrolidinyl)-1Hbenzimidazol-6-yl]oxy]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

[1(2H),2'-Bipyridin]-2-one, 5'-[[2-(2-pyridinyl)-6-(2-pyrrolidinyl)-1Hbenzimidazol-5-yl]oxy]- (9CI)

MF C26 H22 N6 O2

SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 12 2-8

L2 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859535-88-9 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[[6-(difluoromethoxy)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[[6-(difluoromethoxy)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]- (9CI)

OTHER NAMES:

CN 6-(1-Acetylpyrrolidin-2-yl)-5-[[6-(difluoromethoxy)pyridin-3-yl]oxy]-2-(pyridin-2-yl)-1H-benzimidazole

MF C24 H21 F2 N5 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L2 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
- RN 859535-69-6 REGISTRY
- ED Entered STN: 11 Aug 2005
- CN Ethanone, 1-[(2R,4R)-4-fluoro-2-[6-[[6-(5-methyl-1,2,4-oxadiazol-3-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]-,

rel- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-4-fluoro-2-[6-[[6-(5-methyl-1,2,4-oxadiazol-3-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-, (2R,4R)-rel- (9CI) OTHER NAMES:

CN cis-1-[4-Fluoro-2-[6-[[6-(5-methyl-1,2,4-oxadiazol-3-yl)pyridin-3-yl]oxy]- 2-(pyridin-2-yl)-1H-benzimidazol-5-yl]pyrrolidin-1-yl]ethanone

FS STEREOSEARCH

MF C26 H22 F N7 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859535-56-1 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[[6-(2-pyraziny1)-3-pyridiny1]oxy]-2-(2-pyridiny1)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[(6-pyrazinyl-3-pyridinyl)oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]- (9CI)

OTHER NAMES:

CN 6-(1-Acetylpyrrolidin-2-yl)-5-[[6-(pyrazin-2-yl)pyridin-3-yl]oxy]-2-(pyridin-2-yl)-1H-benzimidazole

MF C27 H23 N7 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859535-32-3 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[[6-(1-methyl-1H-tetrazol-5-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[[6-(1-methyl-1H-tetrazol-5-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]- (9CI)
OTHER NAMES:

CN 6-(1-Acetylpyrrolidin-2-yl)-5-[[6-(1-methyl-1H-tetrazol-5-yl)pyridin-3-yl]oxy]-2-(pyridin-2-yl)-1H-benzimidazole

MF C25 H23 N9 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859534-96-6 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[[6-(1,3,4-oxadiazol-2-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[[6-(1,3,4-oxadiazol-2-yl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-(9CI) OTHER NAMES:

CN 6-(1-Acetylpyrrolidin-2-yl)-5-[[6-(1,3,4-oxadiazol-2-yl)pyridin-3-yl]oxy]-

2-(pyridin-2-yl)-1H-benzimidazole

MF C25 H21 N7 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859534-75-1 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-([2,2'-bipyridin]-5-yloxy)-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-([2,2'-bipyridin]-5-yloxy)-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI)

OTHER NAMES:

CN 5-[[6-(1-Acetylpyrrolidin-2-yl)-2-(pyridin-2-yl)-1H-benzimidazol-5-yl]oxy]-2,2'-bipyridine monotrifluoroacetate

MF C28 H24 N6 O2 . C2 H F3 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 859534-74-0 CMF C28 H24 N6 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859533-30-5 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[(6-acetyl-3-pyridinyl)oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[(6-acetyl-3-pyridinyl)oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]- (9CI)

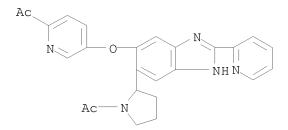
OTHER NAMES:

CN 1-[2-[6-[(6-Acetylpyridin-3-yl)oxy]-2-(pyridin-2-yl)-1H-benzimidazol-5-yl]pyrrolidin-1-yl]ethanone

MF C25 H23 N5 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



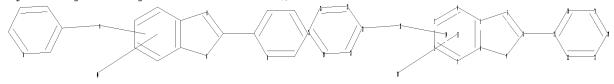
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

Uploading C:\Program Files\STNEXP\Queries\10582564C.str



chain nodes :

10 12

ring nodes :

1 2 3 4 5 6 7 8 9 13 17 18 19 20 21 22 23 24 25 26 27

chain bonds :
8-17 12-13
ring bonds :

19-20 20-21 21-22 23-24 24-25 25-26 26-27

exact/norm bonds :

5-7 6-9 7-8 8-9 12-13

exact bonds :

8 - 17

normalized bonds :

 $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 13-23 \quad 13-27 \quad 17-18 \quad 17-22 \quad 18-19 \quad 19-20 \quad 20-21$

21-22 23-24 24-25 25-26 26-27

G1:0,S

G2:Hy,Ph

Match level:

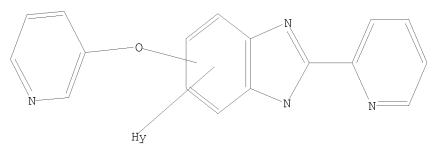
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:Atom 14:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS
L3 STR



G1 O,S G2 Hy,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s sam sss 13

SAMPLE SEARCH INITIATED 18:42:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 56 TO ITERATE

100.0% PROCESSED 56 ITERATIONS 8 ANSWERS

SEARCH TIME: 00.00.01

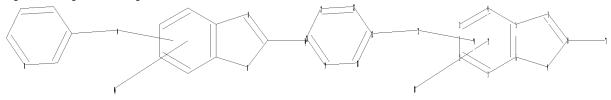
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 671 TO 1569
PROJECTED ANSWERS: 8 TO 329

L4 8 SEA SSS SAM L3

=>

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chain nodes :
10 12 17
ring nodes :

1 2 3 4 5 6 7 8 9 13 18 19 20 21 22

chain bonds: 8-17 12-13 ring bonds:

 $1 - 2 \quad 1 - 6 \quad 2 - 3 \quad 3 - 4 \quad 4 - 5 \quad 5 - 6 \quad 5 - 7 \quad 6 - 9 \quad 7 - 8 \quad 8 - 9 \quad 13 - 18 \quad 13 - 22 \quad 18 - 19 \quad 19 - 20 \quad 20 - 21$

21-22

exact/norm bonds :

5-7 6-9 7-8 8-9 8-17 12-13

normalized bonds :

 $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 13-18 \quad 13-22 \quad 18-19 \quad 19-20 \quad 20-21 \quad 21-22$

G1:0,S

G2:Hy,Ph

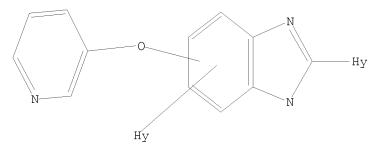
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:Atom 14:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom

L5 STRUCTURE UPLOADED

=> d 15 L5 HAS NO ANSWERS

L5 STR



G1 O,S G2 Hy,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s 15 sss sam SAMPLE SEARCH INITIATED 18:44:22 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 1561 TO ITERATE

100.0% PROCESSED 1561 ITERATIONS 9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 28850 TO 33590
PROJECTED ANSWERS: 9 TO 360

L6 9 SEA SSS SAM L5

=> d 16 9

L6 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN

RN 859533-30-5 REGISTRY

ED Entered STN: 11 Aug 2005

CN Ethanone, 1-[2-[6-[(6-acetyl-3-pyridinyl)oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrrolidine, 1-acetyl-2-[6-[(6-acetyl-3-pyridinyl)oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]- (9CI)

OTHER NAMES:

CN 1-[2-[6-[(6-Acetylpyridin-3-yl)oxy]-2-(pyridin-2-yl)-1H-benzimidazol-5-yl)pyrrolidin-1-yl]ethanone

MF C25 H23 N5 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

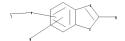
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

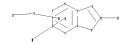
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

Uploading C:\Program Files\STNEXP\Queries\10582564B-1.str





```
chain nodes:
10 12 13 17
ring nodes:
1 2 3 4 5 6 7 8 9
chain bonds:
8-17 12-13
ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds:
5-7 6-9 7-8 8-9 8-17 12-13
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6
```

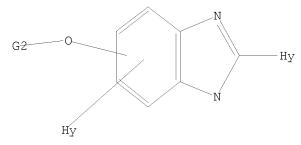
G1:0,S

G2:Hy,Ph

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:Atom 14:Atom 17:Atom

L7 STRUCTURE UPLOADED

=> d 17 L7 HAS NO ANSWERS L7 STR



G1 O,S G2 Hy,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s 17 sam sss SAMPLE SEARCH INITIATED 18:51:19 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 46545 TO ITERATE

4.3% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

0 ANSWERS

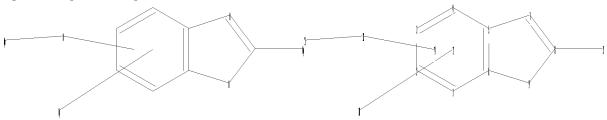
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 918014 TO 943786 PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=>

Uploading C:\Program Files\STNEXP\Queries\10582564F.str



chain nodes :
10 12 13 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
8-15 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 8-9 8-15 12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:CLASS 13:Atom 14:Atom 15:Atom

=> d 19

L9 HAS NO ANSWERS

L9 STR

Structure attributes must be viewed using STN Express query preparation.

=> s sss sam 19

SAMPLE SEARCH INITIATED 18:57:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 50085 TO ITERATE

4.0% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 988338 TO 1015062 PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

 \Rightarrow s 17 full sss

FULL SEARCH INITIATED 19:02:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 925193 TO ITERATE

100.0% PROCESSED 925193 ITERATIONS 117 ANSWERS

SEARCH TIME: 00.00.15

L11 117 SEA SSS FUL L7

=> d 111 1

L11 ANSWER 1 OF 117 REGISTRY COPYRIGHT 2009 ACS on STN

RN 1034497-90-9 REGISTRY

ED Entered STN: 17 Jul 2008

CN Ethanone, 1-[(2R)-2-[6-[[6-(methoxymethyl)-3-pyridinyl]oxy]-2-(2-pyridinyl)-1H-benzimidazol-5-yl]-1-pyrrolidinyl]-, phosphate (1:1) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H25 N5 O3 . H3 O4 P

SR CA

LC STN Files: CA, CAPLUS, CASREACT

CM 1

CRN 1034497-89-6 CMF C25 H25 N5 O3

Absolute stereochemistry.

CM 2

CRN 7664-38-2 CMF H3 O4 P

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 231.34 231.56

FILE 'CAPLUS' ENTERED AT 19:04:22 ON 27 JAN 2009
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FILE COVERS 1907 - 27 Jan 2009 VOL 150 ISS 5 FILE LAST UPDATED: 26 Jan 2009 (20090126/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 111

L12 4 L11

=> d 112 ibib abs 1-4

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

2008:643658 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 149:104639

TITLE: Enantioselective Pd-Catalyzed α -Arylation of N-Boc-Pyrrolidine: The Key to an Efficient and

Practical Synthesis of a Glucokinase Activator

AUTHOR(S): Klapars, Artis; Campos, Kevin R.; Waldman, Jacob H.; Zewge, Daniel; Dormer, Peter G.; Chen, Cheng-yi

Department of Process Research, Merck Research

CORPORATE SOURCE: Laboratories, Rahway, NJ, 07065, USA

Journal of Organic Chemistry (2008), 73(13), 4986-4993 SOURCE:

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 149:104639 OTHER SOURCE(S):

GΙ

AB A short and practical synthesis of glucokinase activator I was achieved utilizing a convergent strategy involving SNAr coupling of activated aryl fluoride II with 3-hydroxy-6-(methoxymethyl)pyridine. The key to the success of the synthesis was the development of a novel method for enantioselective formation of α -arylpyrrolidines during the course of the project. In this method, (-)-sparteine-mediated enantioselective lithiation of N-Boc-pyrrolidine was followed by in situ transmetalation to zinc and Pd-catalyzed coupling with 2-fluoro-4-aminophenyl bromide, proceeding in 92% ee. This transformation allowed the preparation of compound I

in a 31% overall yield over six steps.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:110128 CAPLUS

DOCUMENT NUMBER: 146:206296

TITLE: Preparation of heterocyclylbenzimidazoles and their

use as medical compositions, glucokinase inhibitors,

antidiabetic agents, and antiobesity agents

INVENTOR(S): Ogino, Yoshio; Nonoshita, Katsumasa; Nishimura,

Teruyuki; Eiki, Junichi

PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan

ΙI

SOURCE: Jpn. Kokai Tokkyo Koho, 93 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007022937	A	20070201	JP 2005-204151	20050713
PRIORITY APPLN. INFO.:			JP 2005-204151	20050713
OTHER COHROLICA	Маррат	146.206206		

OTHER SOURCE(S): MARPAT 146:206296

R1-
$$x^{5}$$
 x^{2} x^{4} x^{4} x^{4} x^{4} x^{4} x^{4} x^{4} x^{5} x^{4} x^{6} x^{1} x^{2} x^{4} x^{1} x^{2} x^{2} x^{4} x^{1} x^{2} x^{2} x^{2} x^{3} x^{4} x^{1} x^{2} x^{2} x^{3} x^{4} x^{1} x^{2} x^{3} x^{4} x^{1} x^{2} x^{3} x^{4} x^{1} x^{2} x^{3} x^{4} x^{4} x^{2} x^{3} x^{4} x^{4} x^{2} x^{3} x^{4} x^{4} x^{2} x^{3} x^{4} x

AB Title compds. I [X, X1-X4 = C, N; ring A = 5- to 6-membered heteroaryl containing 1-4 N, S, and/or O; Het = 5- to 6-membered (un)substituted aliphatic heterocyclyl containing O or S; X5 = O, S, SO, SO2, SO2N, CO, NSO2; R1 = aryl, C1-6 alkyl, C3-7 cycloalkyl, (un)substituted (condensed) heteroaryl; R2 = CHO, OH, C1-6 alkyl, fluoromethyl(oxy), cyano, halo, etc.; R3 = C1-6 alkyl, (CH2)1-6OH, CO2-C1-6 alkyl, cyano, CO-C1-6 alkyl, halo, CO2H, etc.; R4 = (un)substituted C1-6 alkyl(oxy), C3-7 cycloalkyl, C2-6 alkenyl, (un)substituted amido, CO2-C1-6 alkyl, (un)substituted heterocyclyl, halo, CO2H, OH, NO2, etc.; m, q = 0-2] or their pharmacol. acceptable salts are prepared Thus, cyclization of 5-carbaldehyde-6-[4-(ethylsulfonyl)phenoxy]-2-pyridin-2-yl-1H-benzimidazole with ethylene glycol gave dioxolane derivative, which inhibited human liver glucokinase with EC50 of 1.18 μM.

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:61253 CAPLUS

DOCUMENT NUMBER: 146:142659

TITLE: Preparation of heterocycle-substituted benzimidazole

derivatives as glucokinase activators

INVENTOR(S): Ogino, Yoshio; Nonoshita, Katsumasa; Nishimura,

Teruyuki; Eiki, Jun-Ichi

PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 99pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE			
WO 2007007910	A1 20070118	WO 2006-JP314307	20060712			
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GE, GH, GM,	HN, HR, HU, ID,	IL, IN, IS, JP, KE, KG	, KM, KN, KP,			
KR, KZ, LA,	LC, LK, LR, LS,	LT, LU, LV, LY, MA, MD	, MG, MK, MN,			
MW, MX, MZ,	NA, NG, NI, NO,	NZ, OM, PG, PH, PL, PT	, RO, RS, RU,			
SC, SD, SE,	SG, SK, SL, SM,	SY, TJ, TM, TN, TR, TT	, TZ, UA, UG,			
US, UZ, VC,	VN, ZA, ZM, ZW					
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IS, IT, LT,	LU, LV, MC, NL,	PL, PT, RO, SE, SI, SK	, TR, BF, BJ,			
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AU 2006267338	A1 20070118	AU 2006-267338	20060712			
CA 2614544	A1 20070118	CA 2006-2614544	20060712			
EP 1905769	A1 20080402	EP 2006-781274	20060712			
R: AT, BE, BG,	CH, CY, CZ, DE,	DK, EE, ES, FI, FR, GB	, GR, HU, IE,			

IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR PRIORITY APPLN. INFO.: JP 2005-204438 A 20050713 WO 2006-JP314307 W 20060712

MARPAT 146:142659 OTHER SOURCE(S):

GT

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [X1-X4 = carbon or nitrogen atom; ring A = 5- to6-membered heteroaryl having 1 to 4 heteroatoms independently selected from the group consisting of nitrogen, sulfur or oxygen atom; X = carbonor nitrogen atom; Het = 5- or 6-membered aliphatic heterocycle containing at least one nitrogen or sulfur atom and optionally addnl. heteroatom selected from the group consisting of nitrogen, sulfur or oxygen atom; wherein aliphatic heterocycle is optionally substituted with alkyl, -O-alkyl, oxo, etc.; X5 = -0-, -S-, -S(0)-, etc.; R1 = aryl, alkyl, cycloalkyl, etc.; R2 = formyl, -OH, alkyl, etc.; R3 = alkyl, -O-alkyl, cyano, etc.; m = 0-2; q = 0-2] and their pharmaceutically acceptable salts were prepared For example, oxidation of [6-[4-(ethylsulfonyl)phenoxy]-2-pyridin-2-yl-1Hbenzimidazol-5-yl]methanol, e.g., prepared from 2-fluoro-4-nitrobenzoic acid in 8 steps, using pyridine sulfur trioxide followed by reaction with ethylene glycol in the presence of p-TsOH·H2O afforded compound II. In glucokinase (GK) activation assays, the EC50 value of compound II was 1.18 μM . Compds. I are claimed useful for the treatment of diabetes and obesity.

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 12 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

2005:612280 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 143:153371

TITLE: Preparation of 2-heteroaryl-substituted benzimidazole

derivatives as glucokinase activators

Nonoshita, Katsumasa; Ogino, Yoshio; Ishikawa, Makoto; INVENTOR(S):

Sakai, Fumiko; Nakashima, Hiroshi; Nagae, Yoshikazu;

Tsukahara, Daisuke; Arakawa, Keisuke; Nishimura,

Teruyuki; Eiki, Junichi

PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 549 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	CENT	NO.			KIND		DATE			APPL	ICAT	ION :		DATE			
WO 2005063738					A1 20050714					WO 2	004-		20041228				
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		MR,	ΝE,	SN,	TD,	ΤG											

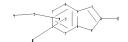
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EP	17029	919			A1	20060	920	EP	2004-	8081	92		20041228					
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RU	23292	261			C2	20080	720	RU	2006-	1274	20		2	0041	228			
IN	20061	ON034	479		A	20070	20070831 IN 2006-DN3479							20060616				
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KR	20063	1058	72		Α	20063	1011	KR	2006-	2006-713089					629			
NO	20060	0034	75		Α	20060	928	NO	NO 2006-3475						20060728			
US	20080	00709	928		A1	20080	0320	US	US 2007-582564						326			
PRIORITY APPLN. INFO.:								JP	2003-	4369	92		A 2	0031	229			
								JP	2004-	2356	96		A 2	0040	813			
								WO	2004-	JP19	843	1	W 2	0041	228			

OTHER SOURCE(S): MARPAT 143:153371

AΒ The title compds. (I) [X, X1, X2, X3, X4 = C, N; ring A = a 5- or6-membered nitrogenous aromatic heterocycle containing 1-3 heteroatoms selected from N, S, and O optionally fused to Ph or pyridyl; R1 = aryl, (un) substituted 4- to 10-membered monocyclic or bicyclic heterocyclyl containing 1-4 heteroatoms selected from N, S, and O; R2 = HO, CHO, CH3-aFa, OCH3-aFa, NH2, cyano, halo, C1-6 alkyl, (CH2)1-4-OH (wherein a = 1-3); R3 = C1-6 alkyl, (CH2)1-6-OH, CO2-C1-6 alkyl, (CH2)1-6-O-C1-6 alkyl, (CH2)1-6-NH2, cyano, CO-C1-6 alkyl, halo, C2-6 alkenyl, O-C1-6 alkyl, CO2H, OH, oxo; R4 = (un)substituted C1-6 alkyl, C3-7 cycloalkyl, C2-6 alkenyl, each (un)substituted CONH2, SO2NH2, O-C1-6 alkyl, or CO-C1-6 alkyl, etc.; X5 = 0, S, S(0), SO2, single bond, O(CH2)1-6; q, m = 0-2] or pharmaceutically acceptable salts thereof are prepared These compds. are glucokinase activators and useful as therapeutic and/or preventive agents for (1) diabetes, (2) complications of diabetes such as retinopathy, nephropathy, neurosis, ischemic heart disease, and arteriosclerosis, and (3) obesity. Thus, 0.026 mL pyridine-2-carboxaldehyde was added to a solution of 59 mg 3-(2-methoxyphenoxy)-5-(pyridin-3-yloxy)benzene-1,2-diamine in 0.5 mL nitrobenzene at 120° and stirred at the same temperature for 1 $\,$ h to give 4-(2-methoxyphenoxy)-2-(pyridin-2-yl)-6-(pyridin-3-yloxy)-1Hbenzimidazole (II). II in vitro activated 832 % human liver glucokinase expressed in Escherichia coli as flag fusion protein with EC50 of 1.4 μΜ.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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10  12  13  17
ring nodes :
1  2  3  4  5  6  7  8  9
chain bonds :
8-17  12-13
ring bonds :
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exact/norm bonds :
5-7  6-9  7-8  8-9  8-17  12-13
normalized bonds :
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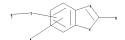
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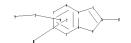
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L13 STRUCTURE UPLOADED

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ring nodes:
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chain bonds:
8-17 12-13
ring bonds:
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exact/norm bonds:
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normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6
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G1:0,S

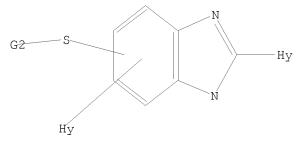
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L14 STRUCTURE UPLOADED

=> d 114 L14 HAS NO ANSWERS L14 STR



G1 O,S G2 Hy,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s sam sss 114 REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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SAMPLE SCREEN SEARCH COMPLETED - 46545 TO ITERATE

4.3% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 918014 TO 943786 PROJECTED ANSWERS: 0 TO 0

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L16 0 L15

=> s full sss 114 REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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1 ANSWERS

0 ANSWERS

L17 1 SEA SSS FUL L14

L18 1 L17

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L18 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
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AN 2005:612280 CAPLUS

DN 143:153371

- ${\tt TI}$ Preparation of 2-heteroaryl-substituted benzimidazole derivatives as glucokinase activators
- IN Nonoshita, Katsumasa; Ogino, Yoshio; Ishikawa, Makoto; Sakai, Fumiko; Nakashima, Hiroshi; Nagae, Yoshikazu; Tsukahara, Daisuke; Arakawa, Keisuke; Nishimura, Teruyuki; Eiki, Junichi
- PA Banyu Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 549 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

				KIND DATE			APPLICATION NO.												
ΡI					A1 20050714														
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OS	MAI	RPAT	143:	1533	71														

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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LOGOFF? (Y)/N/HOLD:y

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FULL ESTIMATED COST 2.75 449.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE

0.00 -3.28

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